

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

11/20/10

Operator: License # 3882

Name: SAMUEL GARY JR. & ASSOCIATES, INC.

Address: 1560 BROADWAY, SUITE 2100

City/State/Zip: DENVER, CO 80202-4838

Purchaser: GARY-WILLIAMS ENERGY CORPORATION

Operator Contact Person: TOM FERTAL

Phone: (303) 831-4673

Contractor: Name: SUMMIT DRILLING

License: 30141

Wellsite Geologist: JUSTIN CARTER

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     SWD     SLOW     Temp Abd.
- Gas     ENHR     SIGW
- Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening     Re-perf.     Conv. to Enhr./SWD

Plug Back     Plug Back Total Depth

Commingled    Docket No. \_\_\_\_\_

Dual Completion    Docket No. \_\_\_\_\_

Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

<u>8/5/2008</u>	<u>8/14/2008</u>	<u>9/30/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22579-0000

County: RICE

S2 N12  
SE NW SE    Sec. 16 Twp. 18 S. R. 10     East  West

1760 1739 feet from SOUTH of Section

1440 1422 feet from EAST Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one)    NE    SE    NW    SW

Lease Name: \_\_\_\_\_ Well #: 2-16

Field Name: WILDCAT

Producing Formation: ARBUCKLE

Elevation: Ground: 1754'    Kelly Bushing: 1764'

Total Depth: 3351'    Plug Back Total Depth: 3326'

Amount of Surface Pipe Set and Cemented at 352 Feet

Multiple State Cementing Collar Used?     Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

API-Tag (2/21/10)

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm    Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market-Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Thomas J. Fertal

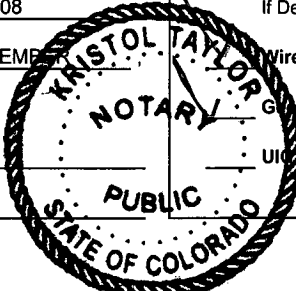
Title: SR. GEOLOGIST    Date: 11/20/2008

Subscribed and sworn to before me this 20<sup>TH</sup> day of NOVEMBER

2008

Notary Public: Mistal Cooper

Date Commission Expires: \_\_\_\_\_



**KCC Office Use ONLY**

Letter of Confidentiality Attached

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

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**NOV 21 2008**

My Commission Expires 5/05/2009

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: SAMUEL GARY JR & ASSOCIATES, INC. Lease Name: SITTNER Well #: 2-16  
 Sec. 16 Twp. 18 S. R. 10  East  West County: RICE

**INSTRUCTIONS:** Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Sample Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TOPEKA	2528'	-764'
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	2791'	-1027'
List All E. Logs Run:	DUAL INDUCTION	DOUGLAS	2821'	-1057'
	DENSITY - NEUTRON	BRN LIME	2908'	-1144'
	SONIC LOG	LANSING	2930'	-1166'
	MICROLOG	ARBUCKLE	3270'	-1506'
		TD	3351'	

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CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	23	352'	CLASS A	180	2% GEL & 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5	3349'	60/40 POZ ECON-O-BOND	25 125	5#/SK GILSONITE, 1/4#/SK CELLFLAKE

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid. Fracture, Shot, Cement, Squeeze Record (Amount and Kind of Material Used)		Depth
		4 JSPF	3274 - 3286	
		300 GAL W/ 20% MCA		

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TUBING RECORD	Size 2-7/8"	Set At 3322'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS
Date of First, Resumed Production, SWD or Enhr.	Producing Method				
9/30/08	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	25	0	0		

Disposition of Gas	METHOD OF COMPLETION				Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	<u>3274 - 3286'</u>			
<i>If vented, submit ACO-18.)</i>	<input type="checkbox"/> Other (Specify) _____				

Quality Oilwell Cementing Inc.

740 W WICHITA  
P.O. Box 32  
Russell, KS 67665

V72505

# Invoice

Date	Invoice #
8/7/2008	1015

9/04

<b>Bill To</b>
Samuel Gary Jr & Associates Inc P.O. BOX 448 RUSSELL KS 67665

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AUG 13 2008  
SAMUEL GARY JR.  
& ASSOCIATES, INC.

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
175	common	13.10	2,292.50T
3	GEL	19.00	57.00T
6	Calcium	50.00	300.00T
184	handling	2.10	386.40
6,256	.09 * 184 SACKS * 34 MILES	0.09	563.04
1	8 5/8 wooden plug	72.00	72.00T
1	surface pipes 0-500ft	910.00	910.00
34	pump truck mileage charge	7.00	238.00
482	discount 10% if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-482.00
	LEASE: SITTNER WELL #2-16 Barton county Sales Tax	6.30%	171.45

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CONSERVATION DIVISION  
WICHITA, KS

DRLG  COMP  W/O  LOE  GG

AFE #: 98038

ACCT #: 135-68

APPROVED BY: [Signature]

Thank you for your business. Dave

**Total** \$4,508.39

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2137

Date	8-6-08	Sec.	110	Twp.	125	Range	127	Called Out		On Location		Job Start		Finish	8/13/08
Lease		Well No.		Location		County		State							
Contractor								Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	Surface														
Hole Size	13 1/4		T.D.		357		Charge To								
Csg.	8 1/2		Depth		225		Street								
Tbg. Size			Depth				City								
Drill Pipe			Depth				State								
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.	100		Shoe Joint				<b>KCC</b> <b>NOV 20 2008</b> <b>CEMENT CONFIDENTIAL</b>								
Press Max.			Minimum												
Meas Line			Displace		2137.4										
Perf.								Amount Ordered	175						
<b>EQUIPMENT</b>								Consisting of							
Pumptrk	No.	Cementer	Helper				Common	175 @ 1310		2292.50					
Bulktrk	No.	Driver	Driver				Poz. Mix	3 @ 1900		57.00					
Bulktrk	No.	Driver	Driver				Gel.	6 @ 5000		300.00					
Great Bend								JOB SERVICES & REMARKS							
Pumptrk Charge	Surface		910.00				Chloride								
Mileage	34 @ 700		238.00				Hulls								
Footage							Salt								
			Total		1148.00		Flowseal								
Remarks:															
								Sales Tax							
								Handling	184 @ 210		386.40				
								Mileage	99 per mile per mile @ 34		563.04				
								Sub Total		1148.00					
								Total		72.00					
								Floating Equipment & Plugs							
								Squeeze Manifold							
								Rotating Head							
								<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b> <b>NOV 21 2008</b>							
								Tax		171.45					
								Discount		(482.00)					
								Total Charge		4508.39					
Signature															



**Pratt**

PAGE 1 of 2	CUST NO 1970-SAM013	INVOICE DATE 08/18/2008
INVOICE NUMBER <b>1970002368</b>		

**B I L L T O**  
 SAMUEL GARY JR. & ASSOCIATES  
 P. O. BOX 448  
 RUSSELL KS 67668  
 ATTN: C/O KELLY BRANUM

**J O B S I T E**  
 LEASE NAME: Sittner  
 WELL NO.: 2-16  
 COUNTY: Rice  
 STATE: KS  
 JOB DESCRIPTION: Cement-New Well Casing/Pipe:  
 JOB CONTACT: C/O KELLY BRANUM

*73077 KCC*  
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JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
1970-02377	301		Net 30 DAYS	09/17/2008
<b>For Service Dates: 08/15/2008 to 08/15/2008</b>				
<b>1970-02377</b>				
<b>1970-17890</b>	<b>Cement-New Well Casing</b>	<b>8/15/08</b>		
Pump Charge-Hourly			1.00 Hour	2160.000
Depth Charge; 3001'-4000'				2,160.00
Cementing Head w/Manifold			1.00 EA	250.000
Plug Container Utilization Charge				250.00
Cement Float Equipment			1.00 EA	360.000
Auto Fill Float Shoe				360.00
Cement Float Equipment			1.00 EA	400.000
Latch Down Plug and Baffle				400.00
Cement Float Equipment			8.00 EA	110.000
Turbolizer				880.00
Extra Equipment			1.00 EA	200.000
Casing Swivel Rental				200.00
Mileage			150.00 DH	1.400
Blending and Mixing Service Charge				210.00
Mileage			150.00 DH	7.000
Heavy Equipment Mileage				1,050.00
Mileage			484.00 DH	1.600
Proppant and Bulk Delivery Charges				774.40
Pickup			75.00 Hour	4.250
Unit Mileage Charge(Pickups, Vans, or Cars)				318.75
Additives			625.00 EA	0.750
Cal-Set				468.75 T
Additives			32.00 EA	3.700
Cello-flake				118.40 T
Additives			214.00 EA	0.250
Cement Gel				53.50 T
Additives			93.00 EA	7.500
FLA-322				697.50 T
Additives			750.00 EA	0.670
Gilsonite				502.50 T
Additives			500.00 EA	1.530
Super Flush II				765.00 T
Calcium Chloride			214.00 EA	1.050
				224.70 T

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**AUG 26 2008**  
 SAMUEL GARY JR.  
 & ASSOCIATES, INC.

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 CONSERVATION DIVISION  
 WICHITA, KS

*g/k*



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PAGE 2 of 2	CUST NO 1970-SAM013	INVOICE DATE 08/18/2008
INVOICE NUMBER <b>1970002368</b>		

**B I L L T O**  
 SAMUEL GARY JR. & ASSOCIATES  
 P. O. BOX 448  
 RUSSELL KS 67668  
 ATTN: C/O KELLY BRANUM

**J O B S I T E**  
 LEASE NAME Sittner  
 WELL NO. 2-16  
 COUNTY Rice  
 STATE KS  
 JOB DESCRIPTION Cement-New Well Casing/Pipe:  
 JOB CONTACT C/O KELLY BRANUM

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
1970-02377	301			Net 30 DAYS	09/17/2008
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Cement 50/50 POZ		125.00	EA	11.000	1,375.00 T
Cement 60/40 POZ		25.00	EA	12.000	300.00 T
Supervisor Service Supervisor Charge		1.00	Hour	175.000	175.00

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DRLG  COMP  W/O  LOE  GC  
 AFE # 98038  
 ACCT #: 135-60  
 APPROVED BY: [Signature]

<b>PLEASE REMIT TO:</b> <b>BASIC ENERGY SERVICES, LP</b> <b>PO BOX 841903</b> <b>DALLAS, TX 75284-1903</b>	<b>SEND OTHER CORRESPONDENCE TO:</b> <b>BASIC ENERGY SERVICES, LP</b> <b>PO BOX 10460</b> <b>MIDLAND, TX 79702</b>	<b>BID DISCOUNT</b> <b>SUBTOTAL</b> <b>TAX</b> <b>INVOICE TOTAL</b>	-3,046.54 8,236.96 207.21 <b>8,444.17</b>
---------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------

# BASIC

energy services, L.P.

**FIELD ORDER 17890**

Subject to Correction

Date: 8-15-08	Customer ID	Lease: Sittner	Well #: 2-16	Legal: 16-185-10W
Sam Gary Jr. and Associates, Incorporated		County: Rice	State: KS	Station: Pratt
Depth: 5 1/2'		Formation: C.W.W. - Longstring		Shoe Joint: 22.32 Feet
Casing: 15.5" ID		Casing Depth: 3,349 Feet	TD: 3,351 Ft.	Job Type:
Customer Representative: Kelly Branum		Pretter: Clarence R. Messick		

AFE Number: PO Number: Materials Received by: **X** *[Signature]* DLS

Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
P	CP104	125 sk	50/50 Poz	—	\$ 1,375.00
P	CP103	25 sk	60/40 Poz	—	\$ 300.00
P	CC102	32 Lb	Cellflake	—	\$ 118.40
P	CC109	214 Lb	Calcium Chloride	—	\$ 224.70
P	CC113	625 Lb	Cal Set	—	\$ 468.75
P	CC129	93 Lb	FLA-322	—	\$ 697.50
P	CC200	214 Lb	Cement Gel	—	\$ 53.50
P	CC201	750 Lb	Gilsonite	—	\$ 502.50
P	CC155	500 Gal	Super Flush II	—	\$ 765.00
P	CF607	1 ea	Latch Down Plug and Baffle, 5 1/2"	—	\$ 400.00
P	CF1251	1 ea	Auto Fill Float Shoe, 5 1/2"	—	\$ 360.00
P	CF1651	8 ea	Turbolizer, 5 1/2"	—	\$ 880.00
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P	E101	150 mi	Heavy Equipment Mileage	—	\$ 1,050.00
P	E113	484 tm	Bulk Delivery	—	\$ 774.40
P	E100	75 mi	Pickup Mileage	—	\$ 318.75
NOV 21 2008 CONSERVATION DIVISION WICHITA KS					
P	CE240	150 sk	Blending and Mixing Service	—	\$ 210.00
P	5003	1 ea	Service Supervisor	—	\$ 175.00
P	CE204	1 ea	Pump Charge: 3,000 Feet To 4,000 Feet	—	\$ 2,160.00
P	CE504	1 Job	Plug Container	—	\$ 250.00
P	CE501	1 ea	Casing Swivel	—	\$ 200.00
Discounted Price =					\$ 8,236.96
Plus Taxes					

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer Gary J. and Associates, Incorporated	Lease No. Sittner #2-16	Date 8-15-08
Lease Sittner #2-16	Well # 2-16	
Field Order # 17,810	Station Pratt	Casing 5 1/2
		Depth 15.9 Lb. 3,349
Type Job C.N.W. - Long string	Formation	County Rice
		State KS
		Legal Description 16-185-10W

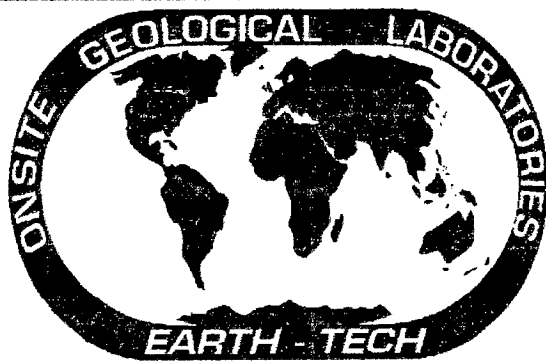
PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 5 1/2	Tubing Size 5 Lb.	Shots/Ft 25	Sacks 25	60/40 Poz with 2% Gel	Rate 3 BT	Pressure LA-322	ISIP 22, 5 Lb./St. Gilsonite
Depth 3,349 Feet	Depth	From 12 Lb./Gal.	To 17.49 Gal./Stk.	2.10 CU.F.T./Stk.	Max	5 Min.	
Volume 71.7 Bbl.	Volume	From 125	To 50/50 Poz with 4% Gel, 2% Ca	10 Min. Chloride			
Max Press. 300 P.S.I.	Max Press.	From .88	To LA-322, .25 Lb./Stk. Cell	15 Min. Gilsonite			
Well Connection 1 1/2" Con. Annular	Annulus Vol.	From 13.8	To Lb./Gal, 7.01 Gal./Stk.	HHP Used 1.53 CU.F.T./Stk.			
Plug Depth 2327 Feet	Backer Depth	From	To	Flush 79.4 Bbl. Fresh Water	Gas Volume	Total Load	

Customer Representative Kelly Branum	Station Manager David Scott	Treater Clarence R. Messick
Service Units 19,870	19,903	19,909
Driver Names Messick	Mattal	LaChance
		NOV 20 2008

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					Cementer and Float Equipment on location.
6:05					Summit Drilling start to run Auto Fill Float shoe, Shoe Joint with Latch Down Baffle screwed in to collar and a total of 84 Joints new 15.5 Lb./Ft. 5 1/2 casing. Ran Turbolizers on collars #1, 3, 5, 7, 9, 11, 13 and #15.
8:30					Casing in well. Rotate and Circulate for 50 minutes.
9:27	300		20	6	Start Fresh Water pre-Flush.
			32	5	Start Super Flush #
9:35			35	5	Start mixing 25 sacks 60/40 Poz.
	300		44	5	Start mixing 125 sacks 50/50 Poz.
	0		78		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
9:49	100		61	5	Start Fresh Water Displacement.
			79.4		Start to lift cement.
10:00	600				Plug down.
	1,500				Pressure up.
					Release pressure. Float shoe held.
					Wash up pump truck.
10:45					Job Complete.
					Thank You.
					Clarence, Mike, Stephen

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CONSERVATION DIVISION  
WICHITA KS





Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: SITTNER 2-16  
Location: SE NW SE Sec. 16 - 18S - 10W Rice Co., Kansas  
License Number: 15-159-22579-0000  
Spud Date: 08/06/08  
Surface Coordinates: 1760 FSL & 1440 FEL  
Region: Wildcat  
Drilling Completed: 08/13/08

Bottom Hole Coordinates:

Ground Elevation (ft): 1754'  
Logged Interval (ft): 2400' To: 3350'  
Formation: LANSING, ARBUCKLE  
Type of Drilling Fluid: Chemical Mud  
K.B. Elevation (ft): 1764'  
Total Depth (ft): 3350'

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Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: SAMUEL GARY JR. & ASSOCIATES, INC.  
Address: 1560 Broadway Blvd., Suite 2100  
Denver, Colo. 80202  
Co. Geo. Mr. Tom Fertal

GEOLOGIST

Name: Justin Carter/Rodney Napier  
Company: EARTH TECH OGL, INC.  
Address: P.O. Box 683  
Hooker, OK 73945  
office: 580-652-3924, cell: 620-655-1187

DST #1

3064'-3135' TOP PACKER SET @ 3059' BOTTOM PACKER SET @ 3064' ANCHOR 71'  
IF: WEAK BLOW, BUILT 8", ISI: NO BLOW, FF: WEAK BLOW B.O.B. IN 60 MIN. FSI: NO BLOW, RECOVERY 365'  
MUDDY SALTWATER  
(A) IH MUD 1508  
(B) FIF:34  
(C) FFF:85  
(D) ISI:739  
(E) SIF:99  
(F) SFF:178  
(G) FSI: 750  
(Q) FH MUD:1487

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WICHITA, KS

**DST #2**

TEST INTERVAL 3264'-3283' ANCHOR 19', TOP PACKER SET @ 3259', BOTTOM PACKER SET @ 3264'  
 IF:WEAK BLOW, BUILT TO 4"

ISI: NO BLOW

FF: WEAK BLOW, BUILT TO 9.5"

FSI: NO BLOW

RECOVERY 272' TOTAL, 182' CLEAN OIL, 90' SW&OCM

(A) IH MUD:1628'

(B) FIF:28

(C) FFF:48

(D) ISI:1095

(E) SIF:57

(F) SFF:125

(G) FSI:1064

(Q) FH MUD: 1633

**DST #3**

STRADDLE 3019' - 3028' 20-60-20-60

IF- 14-24, FF- 29-33, ISI- 617, FSI- 606, IH- 1641, FH- 1500

IF: WK BLOW, BUILT TO 3/4", ISI: NO BB, FF: NO BLOW, FSI: NO BB

RECOV: 35' TOTAL, 35' MUD

BHT- 108 DEG

**ROCK TYPES**

	Anhy		Gyp		Shgy		Sandylms
	Bent		Igne		Sltst		Shale
	Brec		Lmst		Ss		Sltstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrst		Carb sh		Sitysh
	Coal		Salt		Dol		Lms
	Congl		Shale		Dtd		
	Dol		Shcol		Gry sh		

**ACCESSORIES**

<b>MINERAL</b>		Salt		Fossil		Clystn
	Anhy		Sandy		Gastro	Dol
	Arggrn		Silt		Oolite	Grysh
	Arg		Sil		Ostra	Gryslt
	Bent		Sulphur		Pelec	Lms
	Bit		Tuff		Pellet	Sandylms
	Brecfrag		Chlorite		Pisolite	Sh
	Calc		Dol		Plant	Sltstn
	Carb		Sand		Strom	
	Chtdk		Sity		Fuss	
	Chtlt				Oomold	
	Dol					

**FOSSIL**

	Algae	<b>STRINGER</b>	
	Amph		Anhy
	Belm		Arg
	Bioclst		Bent
	Brach		Coal
	Bryozoa		Dol
	Cephal		Gyp
	Coral		Ls
	Crin		Mrst
	Echin		Sltstrg

**TEXTURE**

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule

Phos  
Pyr

Fish  
Foram

Ssstrg  
Carbsh

OTHER SYMBOLS

- POROSITY TYPE**
- [E] Earthy
  - [B] Fenest
  - [F] Fracture
  - [X] Inter
  - [M] Moldic
  - [O] Organic
  - [P] Pinpoint
  - [V] Vuggy

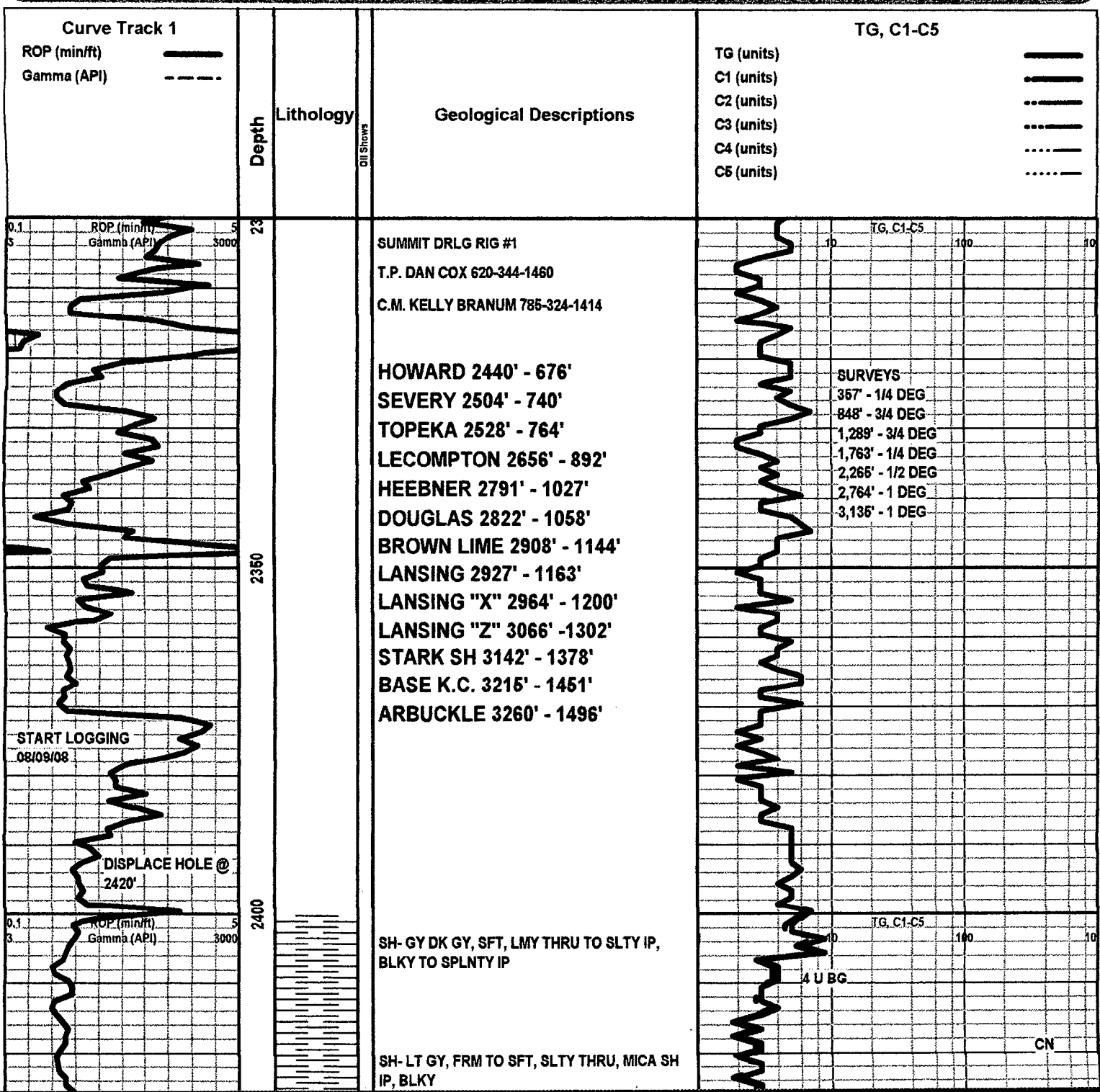
- SORTING**
- [W] Well
  - [M] Moderate
  - [P] Poor

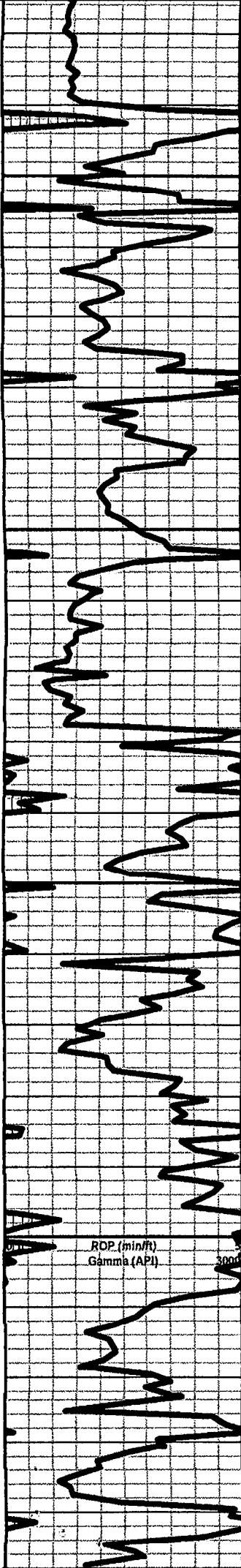
- ROUNDING**
- [R] Rounded
  - [r] Subrnd
  - [a] Subang

- Angular**
- [A] Angular
- OIL SHOWS**
- [●] Even
  - [◉] Spotted
  - [○] Ques
  - [D] Dead
  - [X] Gas show

- INTERVALS**
- [■] Core
  - [□] Dst
  - [◻] Dst

- EVENTS**
- [▽] Rft
  - [▼] Sidewall





2450  
2500  
2550  
2600

RDP (min/ft)  
Gamma (API)

**HOWARD 2440' - 676'**

LS- CRM OFF WHT, HRD DNS, VF-XLN,  
SUB-SUCRO MTRX IP TO RE-XLN IP, CALC-XLS  
IP, DLL YEL MIN FLO THRU, NO VIS POR

SH- GY GRN, SFT, LMY THRU, BLKY, FSSL  
FRAGS IP

LS- TN BRN, HRD DNS, VF-XLN, RE-XLN MTRX  
IP, FSSL FRAGS IP, NO FLO, NO VIS POR

LS- BFF TN, HRD DNS, VF-XLN, SUB-SUCRO  
MTRX THRU, TR FSSL FRAGS, TR DLL YEL MIN  
FLO, NO VIS POR

**SEVERY 2504' - 740'**

SH- DK GY GY, FRM, LMY THRU, BLKY

**TOPEKA 2528' - 764'**

LS- BFF, HRD DNS, VF-XLN, RE-XLN MTRX  
THRU, CALC-XLS IP, NO FLO, NO VIS POR

LS- CRM BFF, HRD DNS, VF-XLN, SUCRO MTRX  
THRU, FSSL FRAGS IP, NO FLO, NO VIS POR

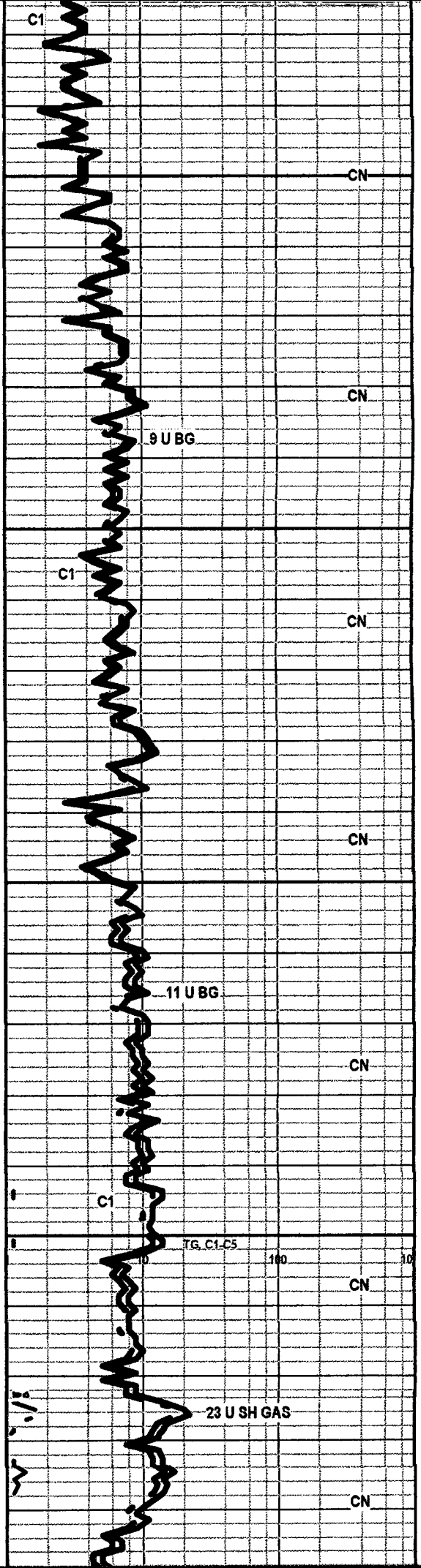
LS- CRM, BRITT, VF-XLN, SUCRO MTRX THRU,  
TR DLL YEL MIN FLO, PR INTER-XLN POR TO  
NO VIS POR THRU

LS- BRN GY, HRD DNS, VF-XLN, RE-XLN MTRX  
IP, FSSL FRAGS SCAT THRU, DLL YEL MIN FLO  
IP, NO VIS POR

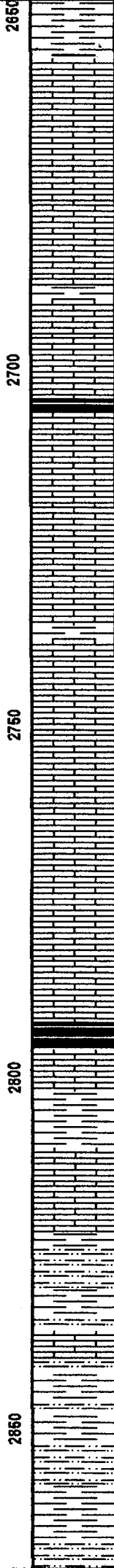
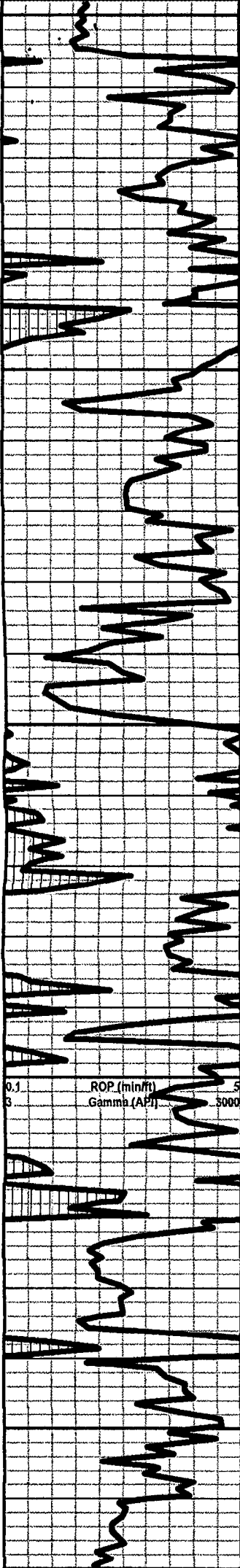
LS- BFF CRM, HRD DNS TO BRITT IP, VF-XLN,  
RE-XLN MTRX IP TO SUB-SUCRO IP, TR FSSL  
FRAGS, TR DLL YEL MIN FLO, NO VIS POR

LS- CRM, HRD DNS, VF-XLN, SUB-SUCRO MTRX  
THRU, NO FLO, NO VIS POR

SH- GY GRN, SFT, LMY THRU, BLKY, FSSL  
FRAGS IP



C1  
CN  
9 U BG  
CN  
C1  
CN  
11 U BG  
CN  
C1  
TG, C1-C5  
CN  
23 U SH GAS  
CN



FRAGS IP

**LECOMPTON 2656' - 892'**

LS- TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO IP, LG FSSL FRAGS IP, NO FLO, NO VIS POR

LS- CRM, HRD DNS, F-XLN, SUCRO MTRX THRU, CALC-XLS IP, IMBED SH IP, DLL YEL MIN FLO IP, NO VIS POR

LS- OFF WHT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-CHLKY IP, IMBED SH IP, NO FLO, NO VIS POR

LS- CRM, HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN IP, TR IMBED SH, DLL YEL MIN FLO IP, NO VIS POR

LS- CRM TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, FSSL FRAGS IP, DLL YEL MIN FLO IP, NO VIS POR

LS- CRM WHT, HRD DNS TO BRITT IP, VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, OOL IP, TR OOLDS, NO FLO TO BRIT YEL GLD FLO IN 40% WHEN CUT, PR INTER-XLN POR TO PR INTER-FSSL POR THRU, STAIN IN 20%, NO ODOR

LS- TN BRN, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR FSSL FRAGS, NO FLO, NO VIS POR

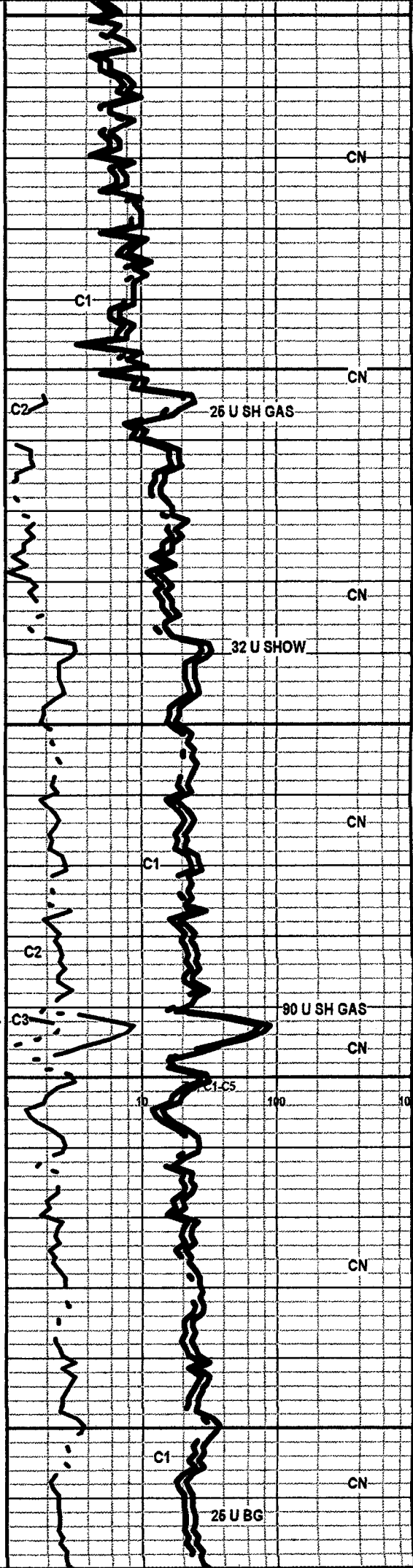
**HEEBNER 2791' - 1027'**

LS- WHT, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO, TR SFT WHT CHLK, YEL MIN FLO THRU, NO VIS POR

**DOUGLAS 2822' - 1058'**

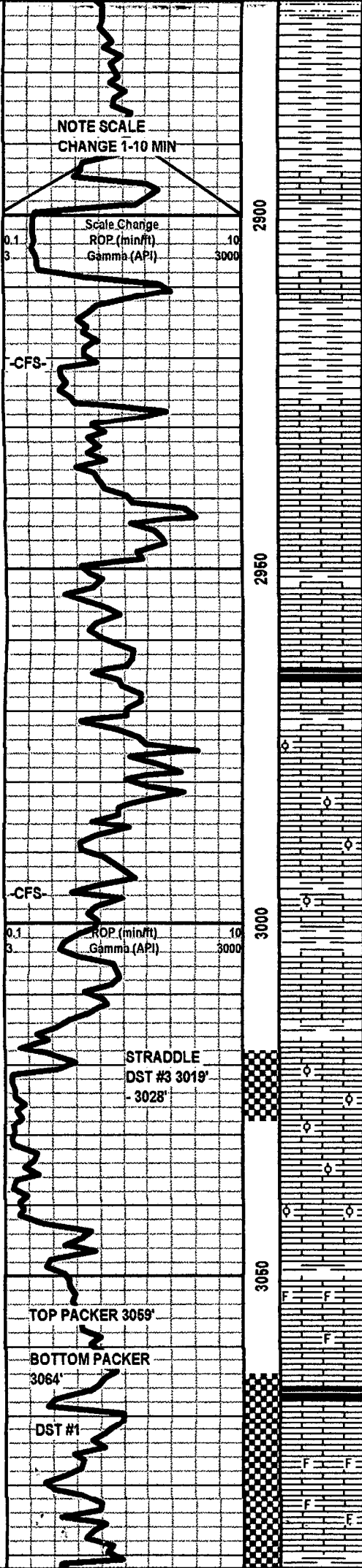
SLTST- WHT GRN, VF-GRNS, PR SRT, ANG TO SUB-RND GRNS, PR INTER-GRN POR THRU

SH- GRN GY, FRM TO BRITT, SLTY THRU, BLKY



ROP (min/ft) 0.1 0.5 1.0 2.0 3.0  
Gamma (API) 3000

10 100 1000



SH- GY, BRITT, SLTY THRU, BLKY

SH- GY, FRM TO SFT, LMY IP TO SLTY IP, BLKY

**BROWN LIME 2908' - 1144'**

LS- BRN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

SHORT TRIP UP TO COLLARS @ 2921'

**LANSING 2927' - 1163'**

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR SFT WHT CHLK, DLL YEL MIN FLO IP, TR MICRO PP POR TO NO VIS POR THRU, NO SHOW

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUB-SUCRO, IMBED OOL IP, TR OOLICLASTS, DLL YEL MIN FLO THRU, TR INTER-MLD POR TO NO VIS POR THRU

**LANSING "X" 2964' - 1200'**

LS- CRM BFF, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY, OOLICLASTS IP, TR OOL, TR YEL MIN FLO TO DLL YEL MIN FLO THRU, PR INTER-MLD POR IP TO NO VIS POR IP, NO SHOW

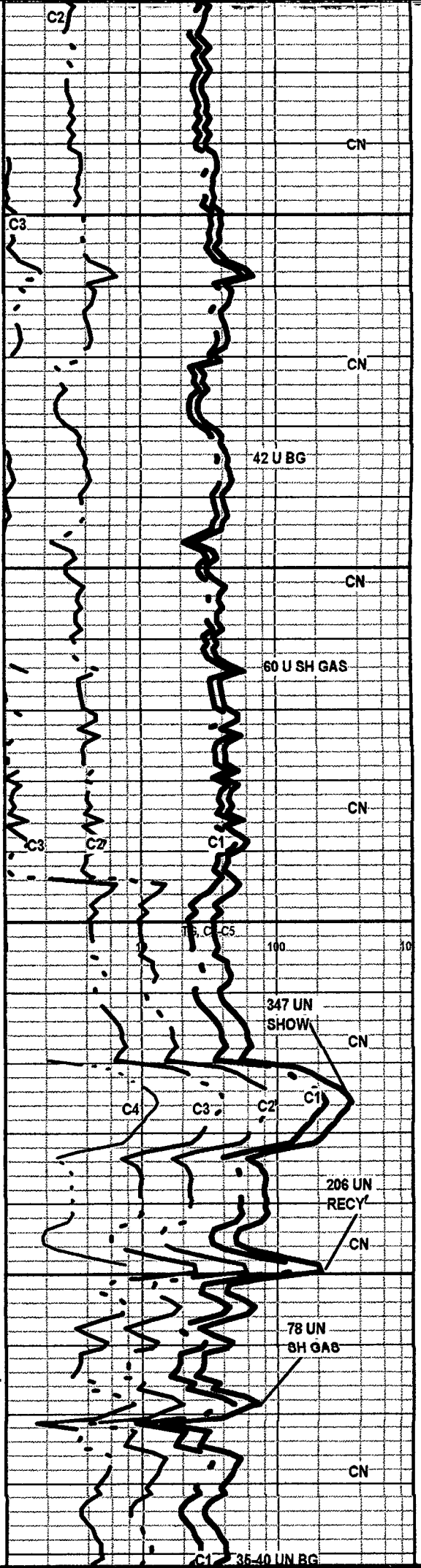
2989' LS- TN WHT, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU, ABDT OOL THRU, TR OOLICLASTS, NO FLO, NO VIS CUT, TR INTER-MLD POR TO PR INTER-FSSL POR THRU, TR STAIN, NO ODOR

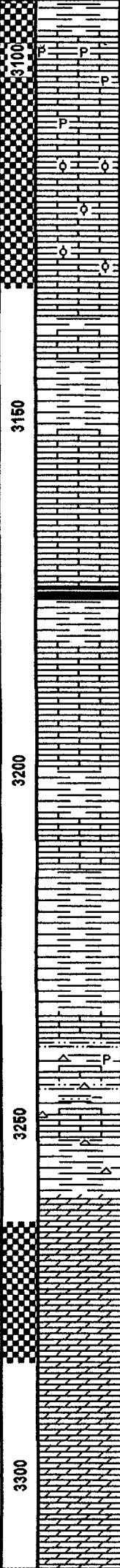
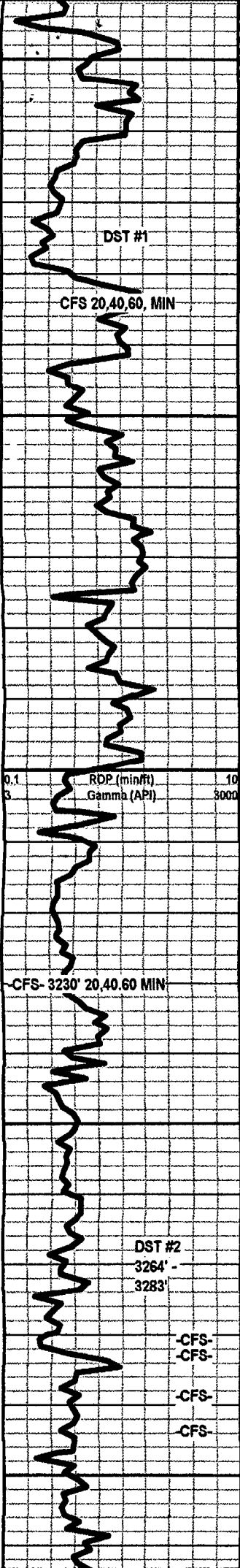
LS TN LT TN BUFF CRM, HD TO BRITT, FN TO MD XLN MTX, RE-XLN MTX, ABUNDT IMBD OOLITES, OOLICASTIC THRU, SUB-CHLKY, SCATT LT YLW TO GLDN YLW FLO, NO ODOR, TR OIL STAIN, FAIR VUG TO FAIR INTERXLN POR, TO OOLICASTIC POR, SLOW MILKY BLUE STREAMING CUT TO POOR FLUSH, TO YLW GRN RING CUT, OIL SHOW

LS GRY TN LT TN, HD DN BRITT, CRYPTO TO VVFN XLN MTX, IMBD FOSS FRG, TR LT GRY SH IP, NO FLO, NO VIS POR, NO VIS SHOW

**LANSING "Z" 3066' -1302'**

LS TN LT TN CRM BUFF, HD TO FRM, BRITT, VVFN TO FN XLN MTX, FOSS FRG, SUB-CHLKY, DULL YLW FLO, POSS INTERXLN POR, NO CUT, NO VIS SHOW





LS DK TN TO TN BUFF HD DN BRITT CRYPTO TO VVFN XLN MTX IMBD FOSS FRG TR LMNTD GRY SH IP TR PYR IP DULL YLW FLO IP NO VIS POR NO VIS SHOW

LS LT TN CRM BUFF OFF WHT, HD TO FRM, BRITT, VVFN TO FN, TR MD XLN MTX, RE-XLN MTX, IMBD OOLITES, SUB-CHLKY, DULL YLW TO LT BRITE YLW FLO, FAIR INTERGRAN TO FAIR VUGGY POR, INTER FOSS POR, FAIR FLUSH TO LT BRITE YLW RING CUT, POOR TO FAINT ODOR FAIR OIL SHOW

**00:01 AM 8/11/08**  
BACK ON BOTTOM 9:55 AM CIRC 45 MIN  
CONDITION HOLE RETURNED TO DRILLING@10:48 AM

**STARK SH 3142' - 1378'**

LS- CRM BFF, HRD DNS, VF-XLN, RE-XLN, MTRX IP, TR FSSL FRAGS, DLL YEL MIN FLO IP, NO VIS POR

LS- BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- CRM BFF, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-CHLKY IP, IMBED SH IP, DLL YEL MIN FLO IP, NO VIS POR

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR FSSL FRAGS, DLL YEL MIN FLO IP, NO VIS POR

**BASE K.C. 3215' - 1451'**  
SHORT TRIP 8 STANDS 3230'

SH- GRN GRY RD, SFT, LMY THRU, BLKY TO TR GMMY, SMOOTH WXY TEXT IP

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUB-CHLKY, OPQ CHRT IP, DLL YEL MIN FLO THRU, NO VIS POR

SH- GY GRN, SFT, LMY THRU, BLKY, OPQ CHRT SCAT THRU

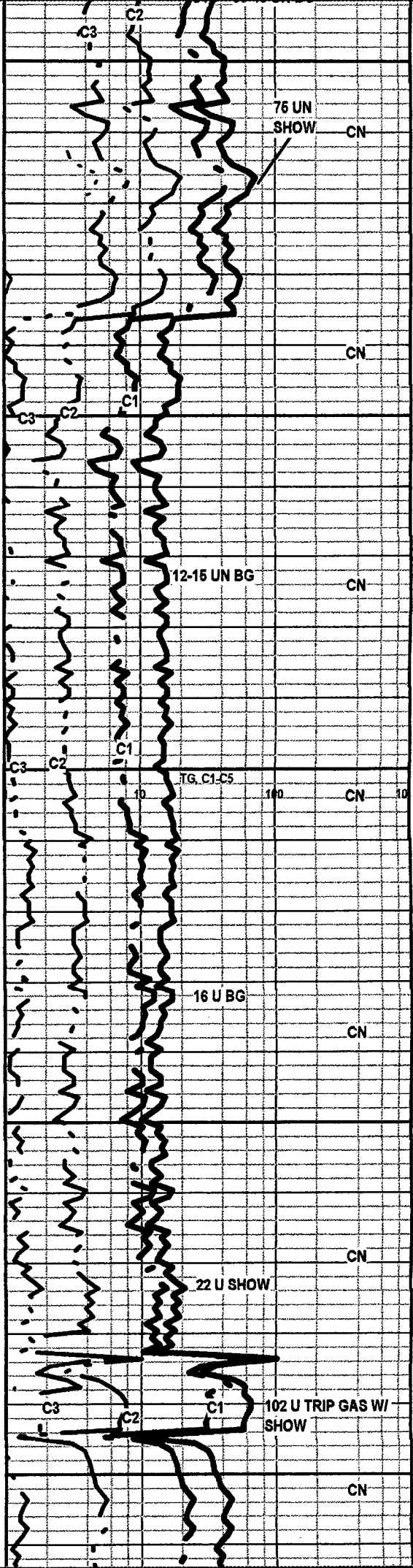
**ARBUCKLE 3260' - 1496'**

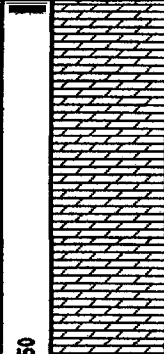
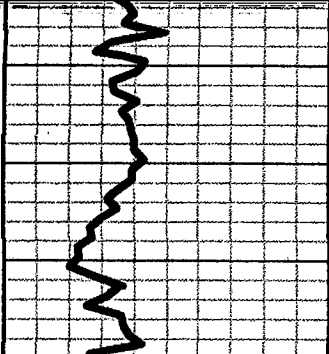
3262' DOLO- WHT, HRD DNS, F-XLS, SUCRO MTRX THRU, DLL YEL FLO THRU, NO VIS CUT, FR INTER-XLN POR IP TO PR INTER-XLN POR THRU, NO ODOR, NO STAIN

3267' DOLO- CRM WHT, HRD DNS, F-XLS, SUCRO MTRX THRU, LOOSE DOLO GRNS IP, DLL YEL FLO THRU, NO VIS CUT, PRIFR INTER-XLN POR THRU, NO STAIN, FAINT OIL ODOR

3277' DOLO- WHT TN, HRD DNS, FVF-XLS, SUCRO MTRX THRU, TR VUGS, TR SFT WHT CHLK, BRIT YEL GLD FLO IN 20% TO DLL YEL FLO THRU, NO FLUSH CUT TO FAINT SLO BLU STRM CUT, PRIFR INTER-XLN POR THRU TO TR INTER-VUG POR, TR STAIN, MILD OIL ODOR

3283' DOLO- BFF CRM TN, HRD DNS, MDF-XLS, SUCRO MTRX THRU, TR IMBED OOL, BRIT YEL GLD FLO IN 20% TO DLL YEL GLD FLO THRU, FAINT FLUSH CUT TO FR SLO BLU STRM CUT, PRIFR INTER-XLN POR THRU, TR STAIN, MILD OIL ODOR





3350

3400

R.T.D 3350'

L.T.D. 3351'

3287' DOLO- BFF TN, HRD DNS, MDIF-XLS, SUCRO MTRX THRU, VUGS IP, YEL GLD FLO THRU TO DLL YEL FLO IP, NO FLUSH CUT TO FR SLO BLU STRM CUT, FR INTER-XLN POR THRU TO PR INTER-XLN POR IP TO FR INTER-VUG POR IP, STAIN IN 30%, FAINT TO MILD OIL ODOR

3294' DOLO- OFF WHT BFF, HRD DNS, CORSEIVF-XLS, SUCRO MTRX THRU TO TR RE-XLN, TR GLAUC, TR SFT WHT CHLK, TR VUGS, DLL YEL FLO THRU, NO VIS CUT, PR/FR INTER-XLN POR THRU TO TR INTER-VUG POR, NO STAIN, FAINT OIL ODOR

3305' DOLO- OFF WHT, HRD DNS, MDIF-XLS, SUCRO MTRX THRU, VUG IP, DLL YEL FLO THRU, NO VIS CUT, FR INTER-XLN POR THRU TO PR/FR INTER-VUG POR IP, NO ODOR, NO STAIN

3320' DOLO- BFF WHT, HRD DNS, MD-XLS, SUCRO MTRX THRU, DLL YEL FLO THRU, FR/IGD INTER-XLN POR THRU, NO SHOW

3338' DOLO- OFF WHT, HRD DNS, MDIF-XLS, SUCRO MTRX THRU, DLL YEL FLO THRU, FR INTER-XLN POR THRU, NO VIS POR

3348' DOLO- CRM WHT, HRD DNS, MD/VF-XLS, SUCRO MTRX THRU, VUGS IP, DLL YEL FLO THRU, FR INTER-XLN POR THRU TO PR/FR INTER-VUG POR IP

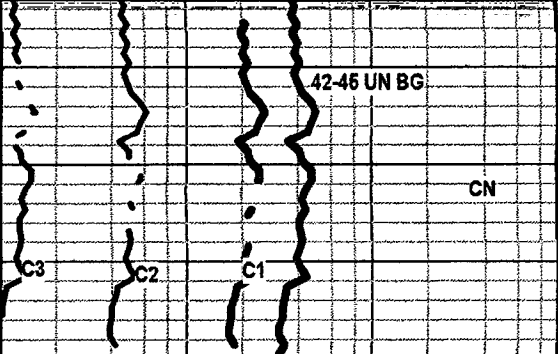
T.D. @ 11:29 PM 8/13/08

CTCH 1 1/2 HR.

T.O.F.L.

LOG TECH HAYS

STRADDLE TEST AFTER E-LOGS



42-45 UN BG

CN

C3

C2

C1

0.1	RDP (min/ft)	10
3	Gamma (API)	3000

	TG, C1-C5			
10		100		10